SUMMARY

Slucky Andrij Victorovych. Plunger face chuck load characteristics research regarding the double spindle CNC turning sliding automatic machine. Master thesis contains 146 pp, 6 tables 27 figures and bibliography of 44 titles. The graphic part comprises 10 drawing sheets.

The goal of research is to increase the machining double spindle CNC turning sliding automatic machine productivity and providing of corresponding loading characteristics.

The master thesis deals with:

- review of CNC turning sliding automatic machine designs as well as their drives and work piece;
- the classification of machine clamping mechanisms as the element of the whole technical system is given;
- the basic design schemes of clamping mechanisms and chucks are discussed;
- the mathematical model of force transfer in the plunger face chucks is derived;
- the design of the double spindle CNC turning sliding automatic machine with plunger face chucks is proposed

Key words: DRIVE, CLAMPING CHUCK, LOAD CHARACTERISTIC, WORK PIECES RANGE, CLAMPING FORCE